CLAIMS

Sub A1

1. A method of copying items implemented in a computer, the method comprising

creating a process if an item to be copied is a directory; and

copying the item if the item is a file.

2. The method of Claim 1 further comprising:

the process performing the act of creating or copying with another item in the directory.

3. The method of Claim 1 further comprising, after the copying:

repeating the act of creating or copying with another item.

4. The method of Claim 1 further comprising, prior to the creating:

comparing a current number of processes started for copying with a limit; and

waiting if the current number is greater than or equal to the limit.

5. The method of Claim 1 further comprising, prior to the copying:

increasing from a default limit on a resource to a maximum limit for the resource.

6. The method of Claim 5 wherein:

the resource is number of open files.

7. The method of Claim 5 wherein:

the resource is file size.

8. The method of Claim 5 wherein:

the resource is memory.

9. The method of Claim 8 wherein:

the memory is organized as a stack.

10. The method of Claim 8 wherein:

the memory is organized as a heap.

11. The method of Claim 1 wherein the copying comprises:

transferring data from the file into a temporary buffer;

locking the temporary buffer; and

invoking a direct memory access (DMA) process for making a copy from the temporary buffer.

12. The method of Claim 1 further comprising, prior to the copying:

checking if the item is a link to itself; and

performing said copying only if the item is not a link to itself.

13. The method of Claim 12 wherein:

the checking includes a string comparison operation.

14. The method of Claim 1 further comprising, during the copying:

sending an email message if a resource at a destination is full.

15. The method of Claim 14 further comprising, during the copying:

waiting to be restarted subsequent to sending the email message.

16. The method of Claim 15 wherein said waiting comprises:

sending a signal to self to suspend execution.

17. The method of Claim 14 further comprising, during the copying:

recopying said file from beginning, on being restarted.

18. The method of Claim 14 further comprising:

identifying an email address from a password file based on an identity of a user that started the process of performing the creating or copying.

19. The method of Claim 1 wherein:

said creating is performed only if said directory is not a current directory and not a parent directory.

20. A method of copying files implemented in a computer, the method comprising:

increasing from a default limit on a resource to a maximum limit for the resource; and

copying a file.

21. The method of Claim 20 wherein:

said resource is one of (number of open files, file size, and memory).

22. A method of copying files implemented in a computer, the method comprising:

transferring data from the file into a temporary buffer;

locking the temporary buffer; and

invoking a direct memory access (DMA) process for making a copy from the temporary buffer.

23. The method of Claim 22 further comprising, prior to the transferring:

checking if the file is a link to itself; and

performing said copying only if the file is not a link to itself.

24. A method of copying files implemented in a computer, the method comprising:

copying a file; and

sending an email message if a resource at a destination is full.

25. The method of Claim 24 further comprising:

waiting to be restarted subsequent to sending the email message.

26. The method of Claim 24 further comprising:

identifying an email address from a password file based on an identity of a user that started the copying.

27. A method of copying files, the method comprising:

starting a process for copying a file; and

receiving an email message if a resource at a destination is full.

28. The method of Claim 27 further comprising:

changing the resources at the destination in response to the email message; and

restarting the process.

29. An apparatus for copying items, the apparatus comprising

means for creating a process if an item to be copied is a directory; and

means for copying the item if the item is a file.

30. The apparatus of Claim 29 further comprising:

means for sending an email message if a destination disk is full.

31. The apparatus of Claim 29 further comprising:

means for increasing a limit on a resource to maximum.

32. The apparatus of Claim 29 wherein said means for copying comprises:

means for using a temporary buffer; and

means for using direct memory access (DMA).

33. The apparatus of Claim 29 further comprising:

means for checking if the item is a link to itself.

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